



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
2 NAVY ANNEX
WASHINGTON, DC 20380-1775

MCO 4030.16F
LPP-2
18 Feb 97

MARINE CORPS ORDER 4030.16F

From: Commandant of the Marine Corps
To: Distribution List

Subj: MARINE CORPS PACKAGING AND PACKAGING MAINTENANCE OF SMALL
ARMS WEAPONS USING VOLATILE CORROSION INHIBITOR (VCI)
TREATED MATERIALS

Encl: (1) General Packaging Instructions For Small Arms Weapons
(2) Sample Packaging Data Sheet For Rifle Assembly, M16A2
(3) Sample Packaging Data Sheet For Multiple Pack For
Rifle Assembly, M16A2

1. Purpose. To provide instructions and general information on the preparation of small arms weapons for shipment and storage, and prescribe procedures for maintaining integrity of required protection during storage tenure per enclosures (1), (2), and (3). This Order subscribes to the use of VCI materials for protection of small arms weapons during storage, shipment, and/or return of unserviceable weapons to maintenance facilities.

2. Cancellation. MCO 4030.16E.

3. Summary of Revision. This revision contains a substantial number of changes and should be reviewed in its entirety.

4. Action. The procedures outlined in this Order are to be implemented as soon as possible.


5. Recommendation. Recommendations concerning the contents of the Marine Corps Packaging and Packaging Maintenance of Small Arms Weapons Using VCI Treated Materials Order are invited. Such recommendations are to be forwarded to the Commandant of the Marine Corps (LPP-2) via the appropriate chain of command.

6. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

DISTRIBUTION STATEMENT A: Approved for public release;
distribution is unlimited.

MCO 4030.16F
18 Feb 97

7. Certification. Reviewed and approved this date.


J. D. STEWART
Deputy Chief of Staff
for Installations and Logistics

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GENERAL PACKAGING INSTRUCTIONS FOR SMALL ARMS WEAPONS

1. Disassembly. Weapons shall be disassembled as necessary to accomplish complete and thorough cleaning, but not beyond that allowed by the unit's authorized echelon of maintenance.

2. Cleaning. Thorough cleaning is the first essential procedure in any effective preservation cycle. No method of preservation will protect a weapon if contaminants are present on the surface of the item when the preservative is applied. Improper cleaning will render all subsequent packaging operations ineffective. There are various processes and methods by which cleaning can be accomplished. The choice depends on the extent of contamination and the materials and equipment available. For small arms weapons, Solvent Cleaning Process (C-3), per MIL-STD-2073-1 or MCO P4030.31, is preferred and can be accomplished even with improvised equipment. Process C-3 is normally a "two step" process, unless accomplished by pressure spray. The weapon is initially cleaned in a petroleum solvent and drained. The initial cleaning will be followed by a secondary cleaning using another container or cloth. Cleaning solvent will conform to P-D-680, Type I. Protective gloves will be worn to avoid fingerprint contamination and possible skin irritation.

a. All metallic surfaces/parts will be cleaned by dipping, scrubbing, or wiping utilizing process C-3 per MIL-STD-2073-1, or MCO P4030.31. Nonmetallic parts will be cleaned by process C-1 per MIL-STD-2073-1, or MCO P4030.31. Parts that have been exposed to burned powder residues (i.e., the bolt, bolt carrier assembly, firing pin, barrel bore and chamber, tip of the operating rod, etc.) require special cleaning. These parts must be scrubbed clean with bristle brushes and/or swabs saturated with rifle bore cleaner conforming to MIL-C-372. Additionally, three complete passes through the bore using the appropriate brush saturated with bore cleaner must be accomplished to meet minimum bore cleaning requirements. Flush all scrubbed surfaces with solvent conforming to P-D-680.

b. Cleaned parts shall then be wiped with clean dry patches, or cloths until no discoloration appears. Repeat cleaning with bore brush, if required.

c. Rinse all metal parts in clean solvent conforming to Type I of P-D-680.

3. Drying. Immediately after cleaning, all parts will be thoroughly dried prior to application of the preservative. Drying shall be accomplished in accordance with MIL-STD-2073-1 or MCO P4030.31 utilizing procedure D-1 (blowing with dry compressed air) except the barrel bore, chamber and flash suppressor which will be dried utilizing procedure D-4 (wiping with clean, dry, lint free swabs and/or clothes).

ENCLOSURE (1)

18 Feb 97

4. Preserving. Immediately after drying, all metallic surfaces/parts shall be coated with a thin coating of preservative conforming to VV-L-800 (P-9), applied by any applicable procedure. Operating and mating parts will be actuated to ensure all surfaces are coated with the preservative. Excess preservative shall be thoroughly drained from the coated surfaces. Wipe metal surfaces of stock and handgrip with a clean cloth moistened with the same preservative oil. The preserved weapon shall be allowed to drain for a minimum of one hour prior to continuing with the packaging process.

5. Packaging

a. Encapsulate magazine and sling in barrier material as identified in the sample packaging data sheet at enclosure (2). If a manual is provided with the weapon, it will also be encapsulated in barrier material. Assemble all parts of the weapon that were disassembled for cleaning. Examine lower receiver to assure that the hammer is in the fired position (against the bolt catch). Insert a VCI bore tube into the barrel. Any sharp and/or protruding areas on the weapon must be cushioned with a non-corrosive material (i.e., MIL-B-121, PPP-C-1797, PPP-C-1842, etc.) to prevent puncture of the barrier material. The assembled weapon will then be sandwiched between layers of MIL-B-22019 Type II, VCI cold seal barrier material. The barrier material must be completely sealed around the weapon with no visible channels through the seal. The encapsulated weapon shall be immobilized with the serial number facing up in the fiberboard box with blocking as shown in the sample packaging data sheet at enclosure (2). Place the magazine, sling, and manual (if provided) in the box and secure to the bottom with tape (i.e., PPP-T-76). Close the container and seal all seams and joints with tape (i.e., PPP-T-76). Fiberboard containers will conform to ASTM D1974, ASTM D5118/ASTM D5118M (formally PPP-B-636). For shipment and storage, small arms weapons packaged as prescribed herein will be packed in triple-wall fiberboard (PPP-B-640, Style E, Class 1) for Level B; and cleated-plywood boxes (PPP-B-601, Style A, B, I, or J, Type OS, Grade B) or containers as described in enclosure (3) for Level A, based on quantity, content weight, shipment destination, type of storage anticipated and/or mode of transportation.

6. Marking. Marking of unit and exterior containers will be per the requirements of MIL-STD-129. Packing lists are required.

7. Special Marking Requirements

a. Serial Numbers. Serial number marking is required and shall be listed on the packing list.

b. Marking of Sensitive Items. Marking of sensitive items in accordance with MIL-STD-129 is required.

ENCLOSURE (1)

8. Safety Precautions. Appropriate safety precautions must be established and observed at all times to protect personnel from materials which may present fire hazards or cause skin irritations.

a. Rubber gloves will be used during the cleaning and preserving process to prevent possible skin burns or irritation by the solvents and to avoid contaminating the metal surfaces of the weapons with fingerprints.

b. Solvents will only be used in a well ventilated room or area and appropriate precautions must be taken to prevent personnel from inhaling solvent vapors.

c. Appropriate firefighting equipment will be readily accessible, in working order, and located near the work areas. Individuals will be instructed and trained in its proper use.

d. Volatile liquids (i.e., gasoline) with low flash points will not be used for cleaning purposes. Dry cleaning solvent and bore cleaning compound, as prescribed herein, are recommended.

e. Personnel handling VCI materials will be instructed to wash their hands thoroughly with soap and water before eating and handling food.

ENCLOSURE (1)

SPECIAL PACKAGING INSTRUCTION

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 30 days per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR FORM TO THIS ADDRESS.

1. PART OR DRAWING NO. 9349000		2. CODE INDENT 19200		3. SPI NO. AM P9349000	
4. NATIONAL STOCK NO. 1005-01-128-9936		5. DATE OF DRAWING Nov 15 1991		6. REVISION D	
7. QUP 1	8. ICQ N/A	9. UNIT PACK WT. 8.60	10. UNIT PACK CU .881	11. UNIT PACK SIZE 3.40X.81X.32	
12. PRESERVATION		18. STEPS	19. REQD	20. DESCRIPTION	
a. LEVEL A Method IC (A) (B)		1	AR	MIL-B-22019 Ty I or II, Barrier Material Transparent, VCI Treated	
b. LEVEL B N/A		2	AR	Bag MIL-B-117 Ty I, Class 3	
		3	1	Bore Tube, VCI Treated P/N 8444972, 1005-00-187-3536, Drwg B1266299	
13. CLEANING See Detailed Requirements		4	1	Box, Fiberboard 41X9 1/2X3 1/2 (ID)	
14. DRYING See Detailed Requirements				Manufacturer's Joint must be secured W/metal Fasteners, ASTM D1974, ASTM D5118, & D5188M Style RSC, Gr W5C	
15. PACKING		5	1	Fiberboard Blocking for Barrel, PPP-F-320, See Sheet 4	
a. LEVEL A (A)		6	1	Fiberboard Blocking for Puttstock, PPP-F-320, See Sheet 5	
b. LEVEL B (A)		7	AR	Tape, PPP-T-76	
16. MARKING IAW MIL-STD-129 (C)					

17. NOTES/DRAWING

Intermediate packaging and packing will be per MIL-STD-2073-1 or as otherwise specified herein (A).

Specification, standards, and drawings listed herein are the issue in effect on the date of invitation for bid and form a part of this data sheet. The applicable general and referenced requirements of specification MIL-STD-2073-1 form a part of this data sheet. Unless otherwise specified, materials will be minimum size per MIL-STD-2073-1.

Tolerances shall be per material specifications. Quality performance and testing requirements shall be per MIL-STD-2073-1 or as otherwise specified herein (D).

NOTES:

- A) For detailed requirements, see sheets 2 and 3.
- B) Method IC-1 with supplementary unit container.
- C) See sheet 3 for marking requirements.
- D) VCI shall be used per MIL-I-8574, see sheet 2.

SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)		Form Approved OMB No. 0704-0188
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1. PART OR DRAWING NO. 9349000	2. CODE IDENT 19200	3. SPI NO. AM P9349000
4. NATIONAL STOCK NO. 1005-01-128-9936	5. DATE SUBMITTED (YYYYMMDD) 91/11/15	6. REVISION D
<p>DETAILED REQUIREMENTS</p> <p>1. PACKAGING: The materials, methods, processes, and procedures specified herein shall conform to the requirements of MIL-STD-2073-1.</p> <p>2. PRESERVATION</p> <p>2.1 LEVEL A</p> <p>2.1.1 CLEANING: The rifle shall be disassembled as necessary to accomplish the cleaning specified herein. All metallic surfaces shall be cleaned by process C-3 and/or C-1 in addition to the following special cleaning. Non-metallic surfaces shall be cleaned by process C-1 (See Para. 2.1.1.1).</p> <p>2.1.1.1 SPECIAL CLEANING (Burned Powder Residue): Surfaces of components subjected to burned powder residue such as the bolt and bolt carrier assembly, firing pin, barrel bore, and chamber, etc., shall be scrubbed clean with bristle brushes and/or swabs saturated with rifle bore cleaner conforming to MIL-STD-372. Flush the scrubbed surfaces with solvent conforming to P-D-680.</p> <p>2.1.2 DRYING: All cleaned surfaces shall be thoroughly dried prior to preservative application. Drying shall be IAW procedure D-1 except the barrel bore, chamber, and flash suppressor shall be dried by D-4 using clean lint free swabs.</p> <p>2.1.3 APPLICATION OF PRESERVATIVE: All metallic surfaces of the rifle shall be coated with VV-L-800 (P9), applied by any applicable procedure. Excess oil shall be allowed to drain from the coated surfaces. The preserved rifle shall be allowed to drain for a minimum of one hour prior to continuing with the packaging process. VCI treated material shall be applied as specified herein.</p> <p>2.1.4 UNIT PACK</p> <p>A. Encapsulate magazine in barrier material (Step 1 & 2).</p> <p>B. Encapsulate sling in barrier material (Step 1 & 2). NOTE: If a manual is provided, it shall be encapsulated in barrier material also (Step 1 & 2).</p> <p>C. Examine lower receiver to assure that the hammer is in the fired position (against the bolt catch). The firing port cover shall be latched shut.</p> <p>D. Insert VCI bore tube (Step 3) into barrel. Encapsulate weapon in barrier material (Steps 1 & 2). The material shall be completely sealed around the weapon with no visible open channels through the seal.</p> <p>E. Encapsulated weapon shall be immobilized in fiberboard box (Step 4) with blocking (Step 5 & 6). Serial number shall be facing up.</p>		

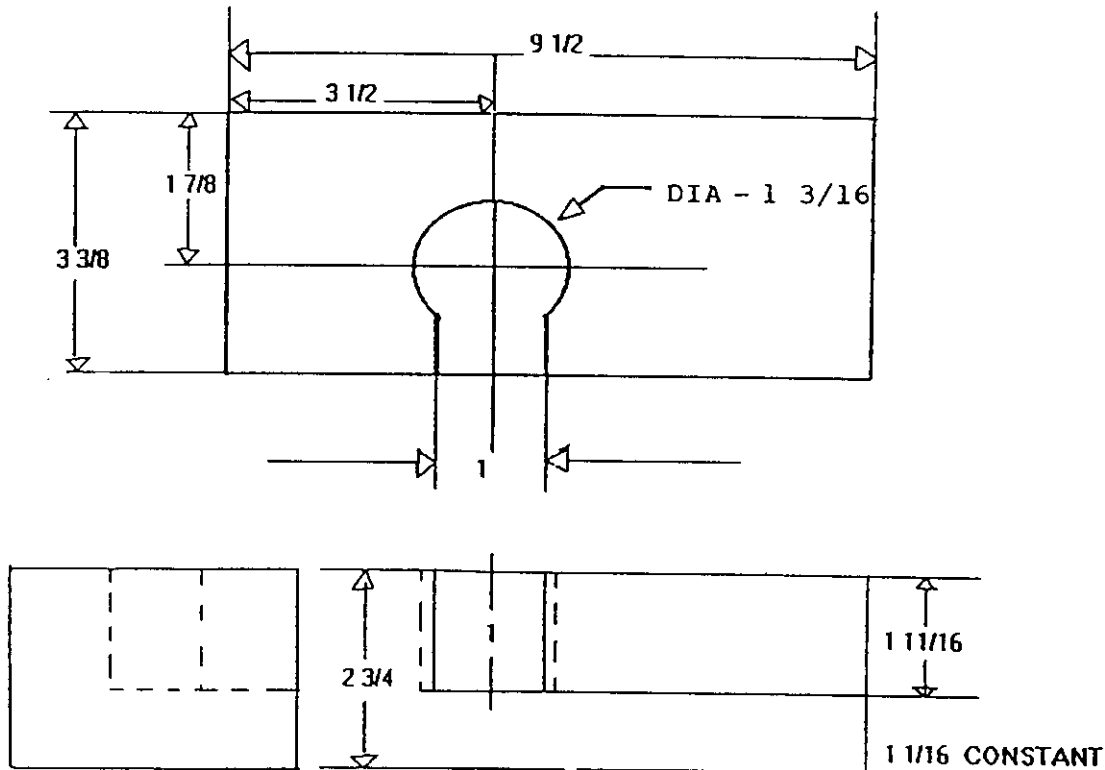
SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)		Form Approved OMB No. 0704-0188
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4. NATIONAL STOCK NO. 1005-01-128-9936	5. DATE SUBMITTED (YYYYMMDD) 91/11/15	6. REVISION D
<p>2.1.4 UNIT PACK (continued)</p> <p style="margin-left: 40px;">F. Place the magazine, sling, and manual (if provided) in the box and secure to the bottom of the box with tape (Step 7).</p> <p style="margin-left: 40px;">G. Close the container and seal seams and joints w/tape (Step 7).</p> <p>3. PACKING: A quantity of 50 unit containers shall be packed flat, 5 per layer, 10 layers high, in a minimum size shipping container. The container shall conform to the applicable level per paragraph 3.1 or 3.2. The maximum allowable tolerance for void shall not exceed 1/2 inch in any dimension. Closure/reinforcement shall be IAW the requirements of the applicable container specification. For odd quantities less than specified for the applicable level, adjust the size of the shipping container to obtain minimum cube. Blocking and bracing shall be employed as required IAW MIL-STD-1186.</p> <p>3.1 LEVEL A: PPP-B-601, Style A, B, I, or J, Ty OS, Gr B. Also see enclosure (3) for 12 and 6 pack level A containers.</p> <p>3.2 Level B: PPP-B-640, Style E, Class 1. The packed container shall be secured to an expendable pallet conforming to PPP-B-1660, Ty 1, Class A, Gr 2. The pallet shall be the same size as the outside length and width of the container (tolerance +0, -5/8). The same type of metallic strapping selected to reinforce the container shall be used to secure the container to the pallet.</p> <p>4. MARKING</p> <p>4.1. MILITARY LEVELS A AND B: Marking of unit and exterior containers shall be IAW MIL-STD-129. Packing lists are required.</p> <p>4.2 SPECIAL MARKINGS</p> <p>4.2.1 SERIAL NUMBERS: Serial number marking is required and shall be listed on the packing list information.</p> <p>4.2.2 MARKING OF SENSITIVE ITEMS: Marking of sensitive items shall be accomplished IAW MIL-STD-129 requirements.</p>		

SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)

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4. NATIONAL STOCK NO. 1005-01-128-9936	5. DATE SUBMITTED (YYYYMMDD) 91/11/15	6. REVISION D



BARREL BLOCKING

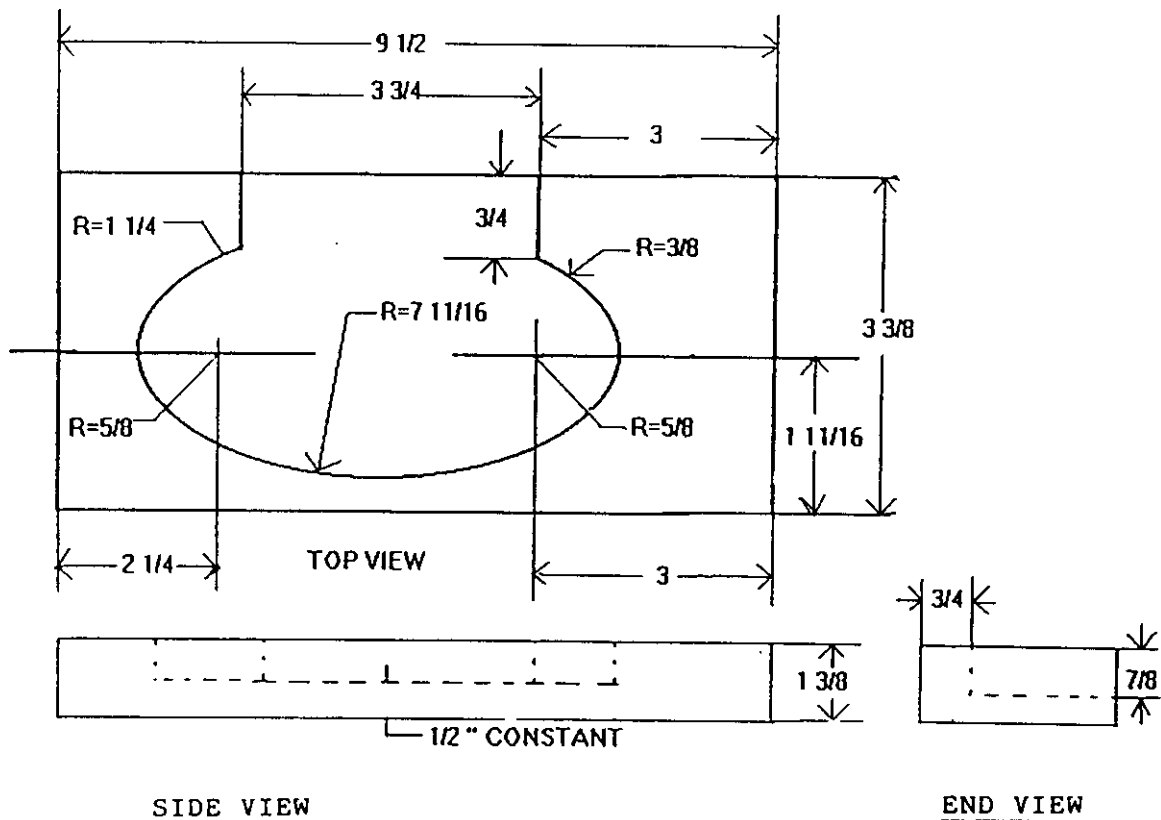
1. MATERIAL - FIBERBOARD SPEC - PPP-F-320
PPP-B-640
2. DUNNAGE SHALL BE CONSTRUCTED OF AS MANY THICKNESSES OF FIBERBOARD AS MAY BE REQUIRED, LAMINATED IAW PPP-F-320, OR BAND TOGETHER WITH TAPE, PPP-T-97.

SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)

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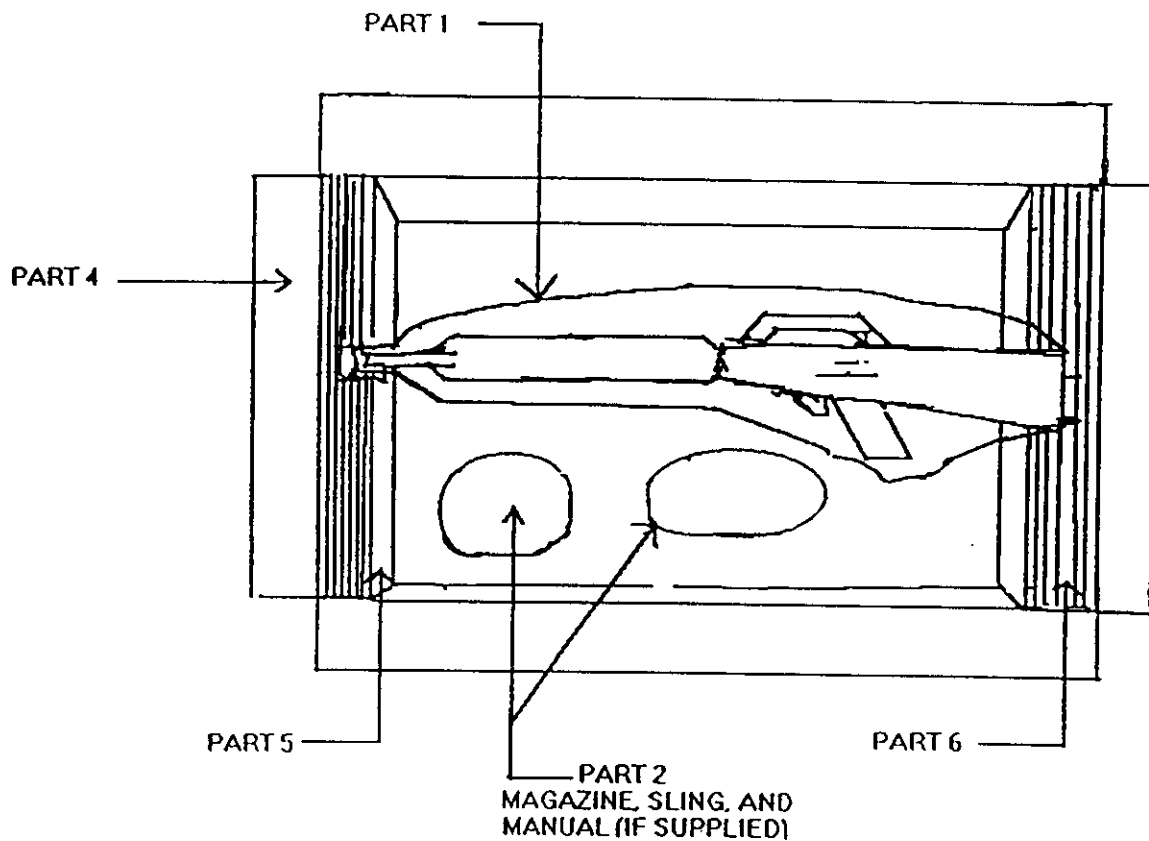
- BUTTSTOCK BLOCKING
1. MATERIAL - FIBERBOARD SPEC - PPP-F-320
PPP-B-640
 2. DUNNAGE SHALL BE CONSTRUCTED OF AS MANY THICKNESSES OF FIBERBOARD AS MAY BE REQUIRED. LAMINATED IAW PPP-F-320. OR BAND TOGETHER WITH TAPE, PPP-T-97.

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1. PART OR DRAWING NO. AR15			2. CODE INDENT 98752		3. SPI NO. 00-856-6885	
4. NATIONAL STOCK NO. 1005-00-856-6885			5. DATE OF DRAWING March 1994		6. REVISION 0	
7. QUP 1	8. ICQ N/A	9. UNIT PACK WT. 150	10. UNIT PACK CU 10.7		11. UNIT PACK SIZE 41X22X12	
12. PRESERVATION		18. STEPS	19. REQD	20. DESCRIPTION		
a. LEVEL A IIF		5	A/R	Strapping ASTM D3953 (See Note 1)		
		4	A/R	Preservative VV-L-800 (See Note 1)		
b. LEVEL B IIF		3	A/R	Tube Bore VCI MIL-P-3420, Ty 1, Class 2, Style A or B (See Note 2)		
13. CLEANING See Note 1		2	32	Units of Desiccant MIL-D-3464, Ty 2 (See Note 9)		
14. DRYING See Note 1		1	1	Exterior Container (See Packing Level)		
15. PACKING						
a. LEVEL A 8145-01-196-3731						
b. LEVEL B 8145-01-196-3731						
16. MARKING IAW MIL-STD-129		ITEM NOMENCLATURE: Rifle, M16				
17. NOTES/DRAWING SPECIAL MARKINGS: A) SPI No. 00-856-6885 B) Reusable Container Do Not Destroy C) Serial Number Marking Required IAW MIL-STD-129 Except no Serial Numbers Will Be Placed On The Exterior Shipping Container D) Sensitive Item Marking, Any Identification Markings That Would Denote The Nature Of The Contents Shall Not Be Placed On The Exterior Shipping Container. Packing List or Other Documents Shall Be Placed Inside The Container.						

SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)

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4. NATIONAL STOCK NO. 1005-00-856-6885	5. DATE SUBMITTED (YYYYMMDD) 94/03/19	6. REVISION Q

NOTES:

1. Clean, dry, and preserve IAW MIL-STD-2073-1. Preserve with P/N 4 light coats (use cotton gloves when applying). Disassemble to the extent necessary to ensure thorough cleaning. Disassembly instructions are contained in the applicable T.O.
2. If barrel does not have a chrome bore or caps, insert a strip of VCI material, P/N 3 into the barrel bore. Insure the strip of VCI is of sufficient length to permit one-inch to protrude and bend over the muzzle end of the barrel.
3. To open container, relieve pressure accumulation by depressing pressure relief valve button. Upon release of pressure, container may be opened by disengaging all latches and lifting top from base of container.
4. To close container secure weapons by locking the retaining bar in place. Place top of container on base section and fasten all latches and fold latches flush with container assembly side. All latches must be secured to seal container.
5. Repairables shall be packaged as shown hereon.
6. Alternate container. If containers 8145-01-196-3731GG (12 weapons) or 8145-01-235-1111GG (6 weapons) are not available, refer to single pack information.
7. If serviceable items are received in the container specified on this SPI, reuse the container for return of repairable items.
8. Quantities of 6 or 12 weapons shall be packaged IAW this SPI. Quantities of 6 or less shall be packaged in container 8145-01-235-1111GG.
9. Place desiccant P/N 2 in packet inside of container. When humidity indicator changes colors, from blue to pink, replace desiccant P/N 2.
10. When applicable accessories shall be packaged for each rifle, place in appropriate slots of container.
11. Band each container using P/N 5 into dented slots of container. Two bands per container are required using minimum pressure. For storage of mobility weapons, bands may be waived, however, on each end of containers a seal (NSN 5340-00-292-0886) must be attached.
12. For storage containers should be stacked from 3 to 9 high.

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